APPLAUSE™ MEDIA SYSTEM with Audio/Video Functionality SERVICE LAUNCH PACKAGE For ENCORE® 500/S Series For Authorized Service Contractors

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Overview

This launch package covers the APPLAUSE Media System audio/video functionality release. It is not intended to serve as a replacement for installation, service, parts manuals or training. A list of reference manuals is provided. Always ensure you have the most current documentation. Manuals can be obtained on the Gilbarco Veeder-Root website on GOLD® in the Gilbarco Extranet (www.gilbarco.com).

In 2005, SMART Merchandising™ was introduced for use with the Encore® Dispenser Series. SMART Merchandising became the Applause™ Media System in 2008. This launch package introduces APPLAUSE with enhanced *Audio* and *Video* functionality.

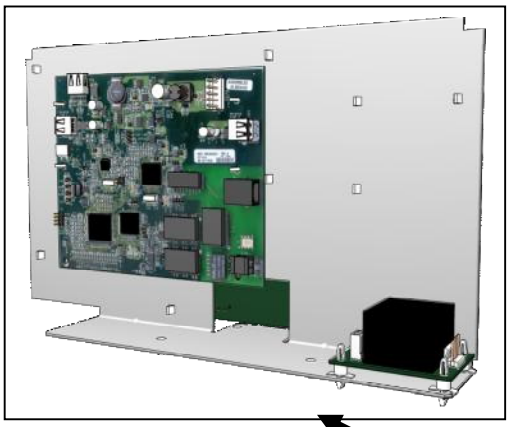
Overview (continued)

The Applause release introduces Audio and Video functionality for 10.4–inch Color Screen. Factory release for Applause audio/video is scheduled for August of 2009. Kits are available to upgrade existing 10.4-inch Color Screen units in the field.

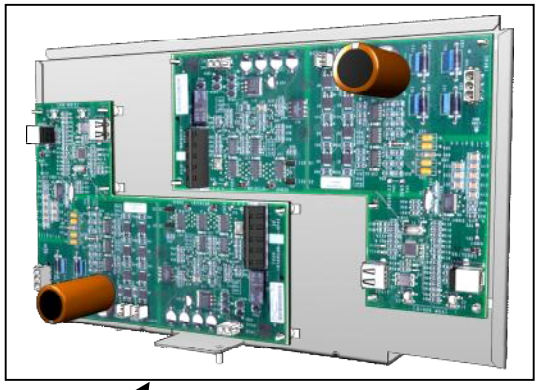
Upgrade kits for 10.4-inch Color screen units in the field contain:

1. A Network Connectivity Board M06365A002 or A003
2. Audio Boards (1 per side), when needed (Note: some dispensers may already have audio boards installed)
3. Speakers, when needed (many dispensers already have speakers installed)
4. Associated cables for connectivity
5. Flash Card Software for the Color Screen CRIND
6. Software CD for the Applause Site Server
7. Note: Factory released units will contain audio/video hardware and software

Network Connectivity Board

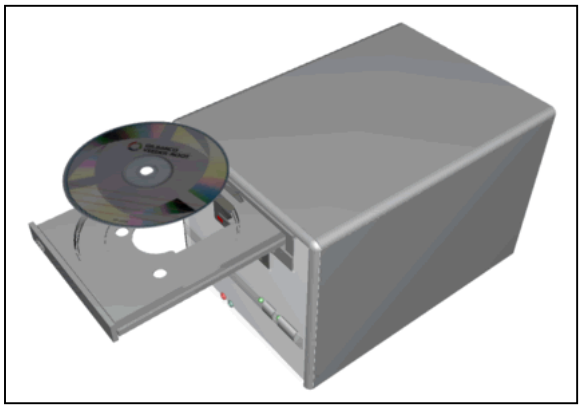


Audio Boards



Same Assembly

Site Server CD



Flash Card

Manual References

- MDE-4699 Applause Installation and Start-up (Contains installation and startup procedures for The Applause Media System)
- MDE-4703 Applause Media System Color Screen Upgrade Kit (Contains the Audio/Network Connectivity upgrade along with Flash upgrade for the Color Screen CPU and general Site Server upgrade procedure – Contact Gilbarco Customer Service for Kit information)
- MDE-4301 Applause Media System Quick Reference Card (For Control Center users)
- MDE-4349 Applause Media System Control Center User Manual for Merchants/Customers
- MDE-4246 Dispenser Upgrade Manual for Network Connectivity (Contains site wiring options/requirements for Applause)
- MDE-3984 Warranty
- MDE-4302 Applause Media License Agreement
- MDE-4769 Personality Screen Change for Color Screen Instructions
- MDE-3804 Encore® / Eclipse® Start Up and Service
- Applause Training Course Available: Contact "technicaltraining@gilbarco.com"

Spare Parts and Software Requirements

Part Number	Description	QTY ASC 100	QTY Distributor 100	QTY Distributor 500
M07543A001	*Audio* 8 VAC Transformer Board for (Part of Assembly M07753A00X)	0	1	2
M03565A001	*Audio* Board (Part of Assembly M07753A00X Note: This is the same audio board used on Car Wash Kiosk and is already a spare part.)	2	4	6
M06365A002	Applause Network Connectivity Board with Isolation (Part of Assembly M07753A003/A005) Note: M06365A002 can be used in place of M06365A003)	2	4	6
M06365A003	Applause Network Connectivity Board with Isolation without DSL (Part of Assembly M07753A004)	1	2	4
M09112A001	Peripheral Interface PCB (PIP) Board (Used in Assembly M06481A006)	1	2	4

Note: A M06365A002 can be used in place of a M06365A003 if necessary.

M07743K001 (Minimum Version 01.2.07) FLASH Software for 10.4-inch Color Screen CRIND CPU to support Applause w/ audio/video, and TRIND and EPP.

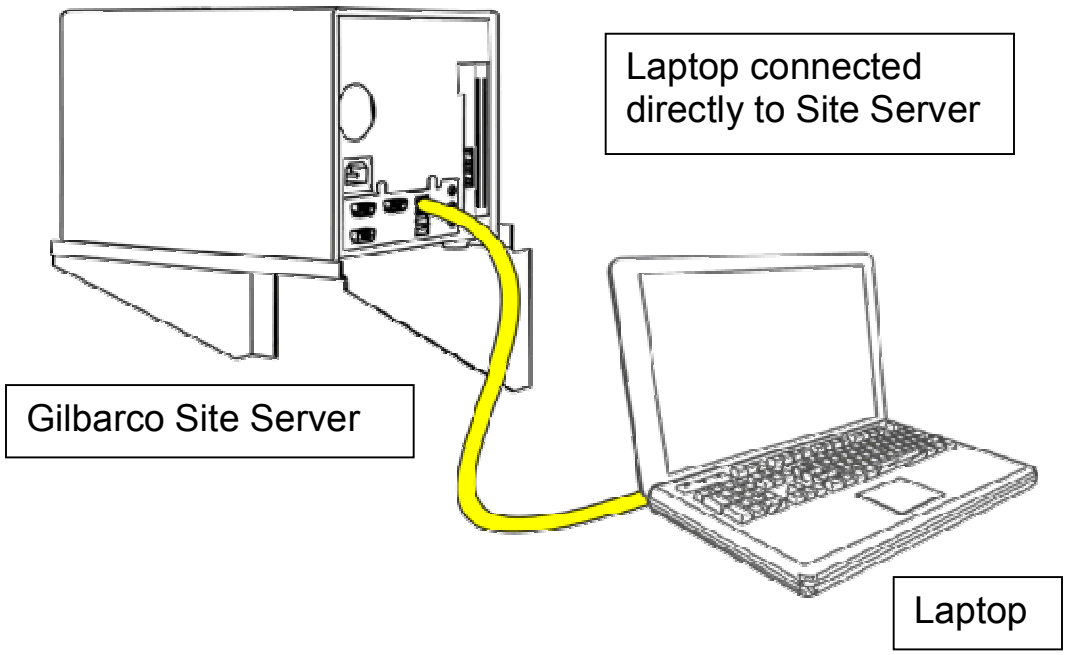
Site Server CD Software - Minimum Version 30.2.10 to support Applause with audio/video functionality

Site Server Software Upgrade and Programming

There are two methods to connect a laptop to the Site Server for upgrading and programming. One method is to use a crossover cable (GVR # Q13850-C06) and connect directly to the Site Server (See graphic below). The other method (most common) is to connect a standard CAT 5 cable into the site's network router or switch (See graphic next page). Refer to the Applause Media System Installation and Start-up procedure in MDE-4699 for specific start up and programming instructions.

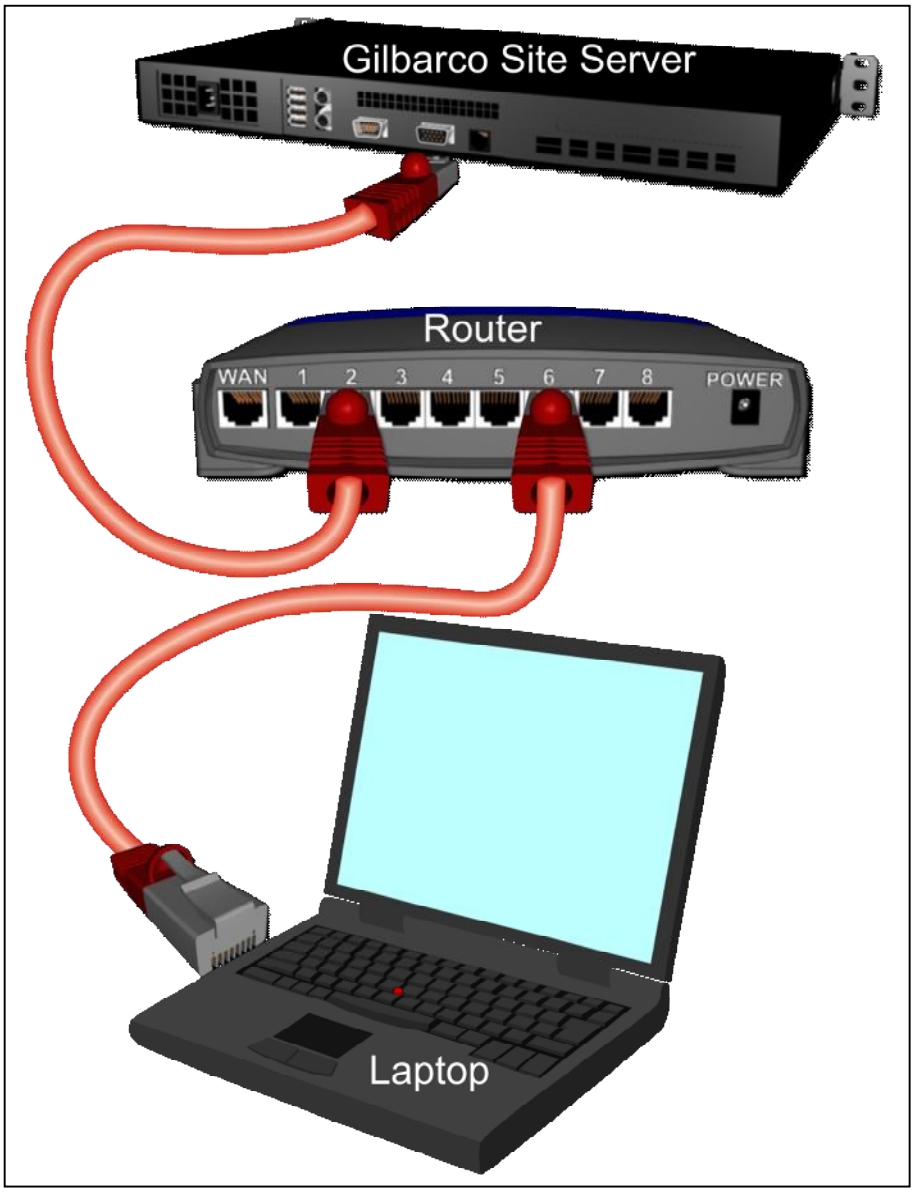
Note: There are several different types of Site Servers, however, they carry the same basic functionality. Method 1 graphic shows our oldest type, whereas method 2 shows our most recent type.

Method 1



Method two

Laptop connected to Site Router



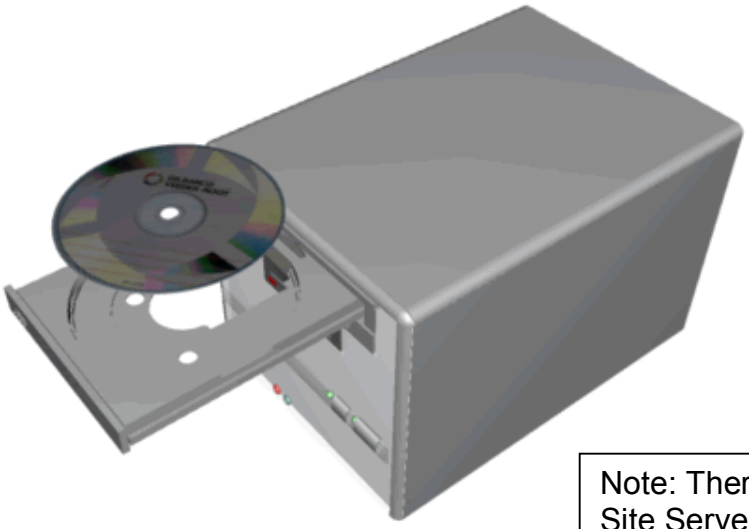
Site Server Software Upgrade and Programming

The audio/video upgrade kit (contact Gilbarco Customer Service for kit information) is shipped with a software CD. This software must be loaded onto the Gilbarco Site Server in order to get the system up and running.

When loading the CD onto the Site Server's hard drive, make sure to either press the reset button or power cycle the server while the CD is in the CD drive. A power cycle can be performed by pressing and holding the power button for 5 seconds, then press the power button again to power up the Site Server.

The CD software will automatically be placed on the Site Server's hard drive after a power cycle. Once complete, the Site Server will automatically open the CD drive. Remove the CD and close the CD door. Cycle power once again to boot the Site Server off of the hard drive. Now, you will be ready to program and commission the Site server.

Note: During programming of the Site Server, use "applause" in the Hostname (for example: storename.applause.gilbarco.com).

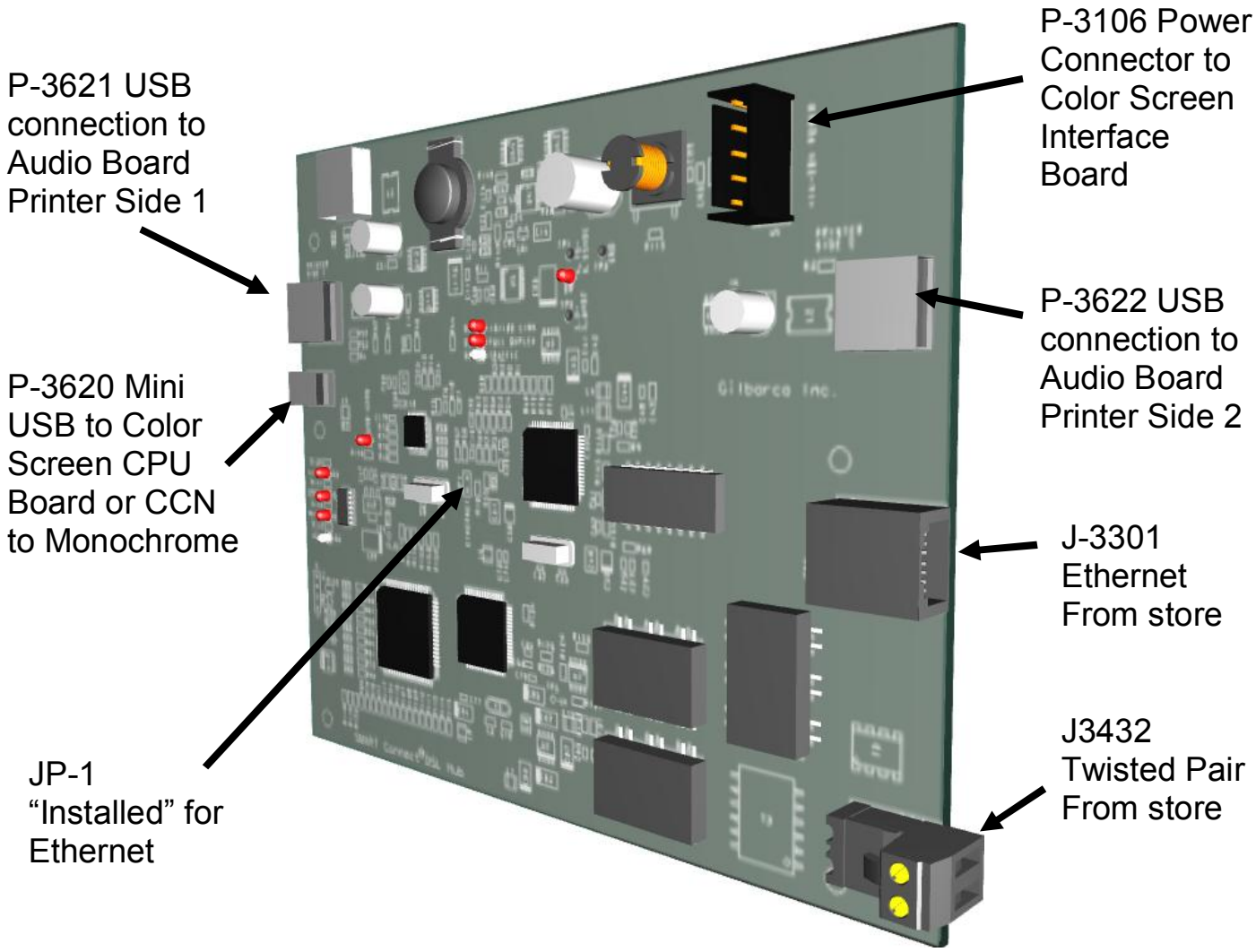


Note: There are 4 different Site Server types in the field. The "first-released" Shuttle Box is shown here.

Reference MDE 4699 for specific programming instructions.

M06365A002/A003 Forecourt Network Connectivity Board (Inside dispenser)

The dispensers will need to be upgraded with a Network Connectivity Board. This board provides high speed Ethernet connectivity inside the pump/dispenser. It receives either DSL twisted pair or direct Ethernet CAT5E from the store. If Ethernet is used, a jump jack must be placed in the JP-1 position (must be out for DSL). The A003 Board is minus the DSL circuitry.


P-3106 Power Connector to Color Screen Interface Board
P-3621 USB connection to Audio Board Printer Side 1
P-3622 USB connection to Audio Board Printer Side 2
P-3620 Mini USB to Color Screen CPU Board or CCN to Monochrome
J-3301 Ethernet From store
J3432 Twisted Pair From store
JP-1 "Installed" for Ethernet

The M06365**A003** can be used in conjunction with existing CPE/LRE inside the dispenser (also know as turtles). Therefore, if the site already has a turtle, then it's not necessary to replace the turtle with the M06365A002. Just add the M06365A003.
See Block Diagram on last page for system interconnect.

Wire Specifications (from store to dispenser)

Twisted Pair Specification (Reference MDE-4246)

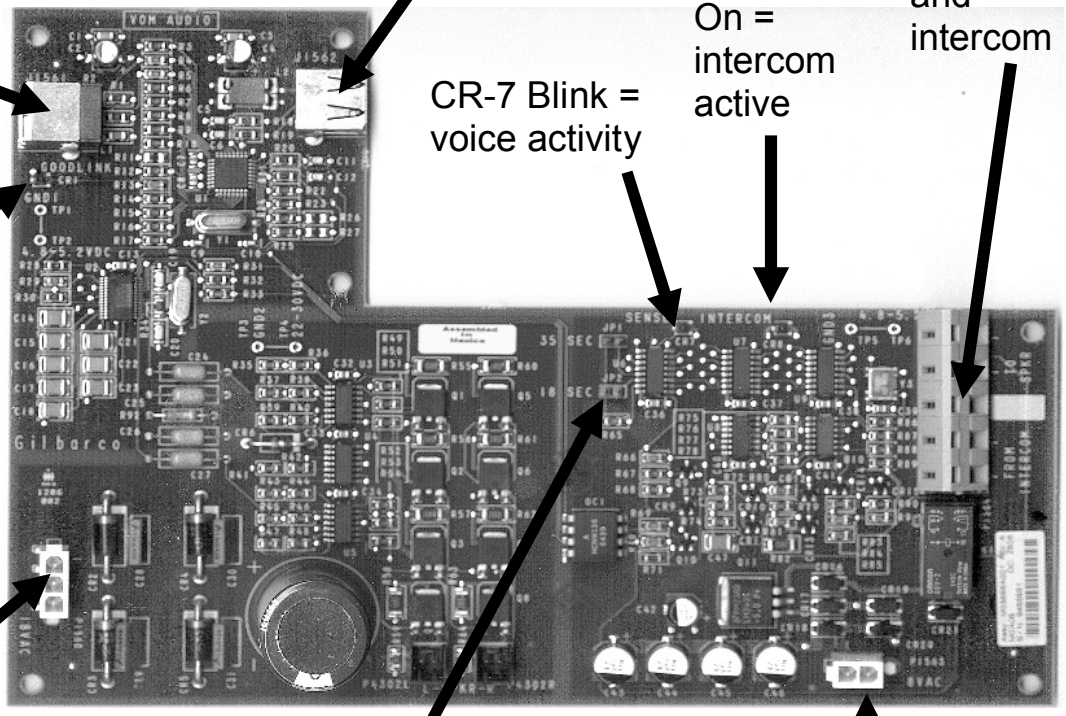
- Q13221-02 Wire- 300 Volt Minimum Stranded, Annealed Copper Tinned with PVC Insulation
- Type TFFN or NTW, UL Approved Gasoline and Oil Resistant
- 18 AWG Wire with 10-12 Twists Per Foot
- Note: Twisted Pair may be ran through AC conduit, however, additional hardware is required (Isolation Box inside the store)
- Do not use shielded wire

Ethernet Specification (Reference MDE-4246)

- Ethernet wiring must be installed in accordance with ANSI/TIA/EIA 568B Standards and Amendments
- Ethernet wiring must be run in spare or intercom conduit only (no AC Power)
- CAT 5E gas and oil resistant. See MDE-4246 for detailed spec., and installation instructions
- Runs must be less than 280 feet from point to point.

M03565A001 Audio Board

Note: Printer USB cables are routed through Audio Board.



J1561 USB to CPU Board

J1562 USB to Printers

CR-8 On = intercom active

To speaker and intercom

CR-7 Blink = voice activity

CR-1 ON = USB loop active

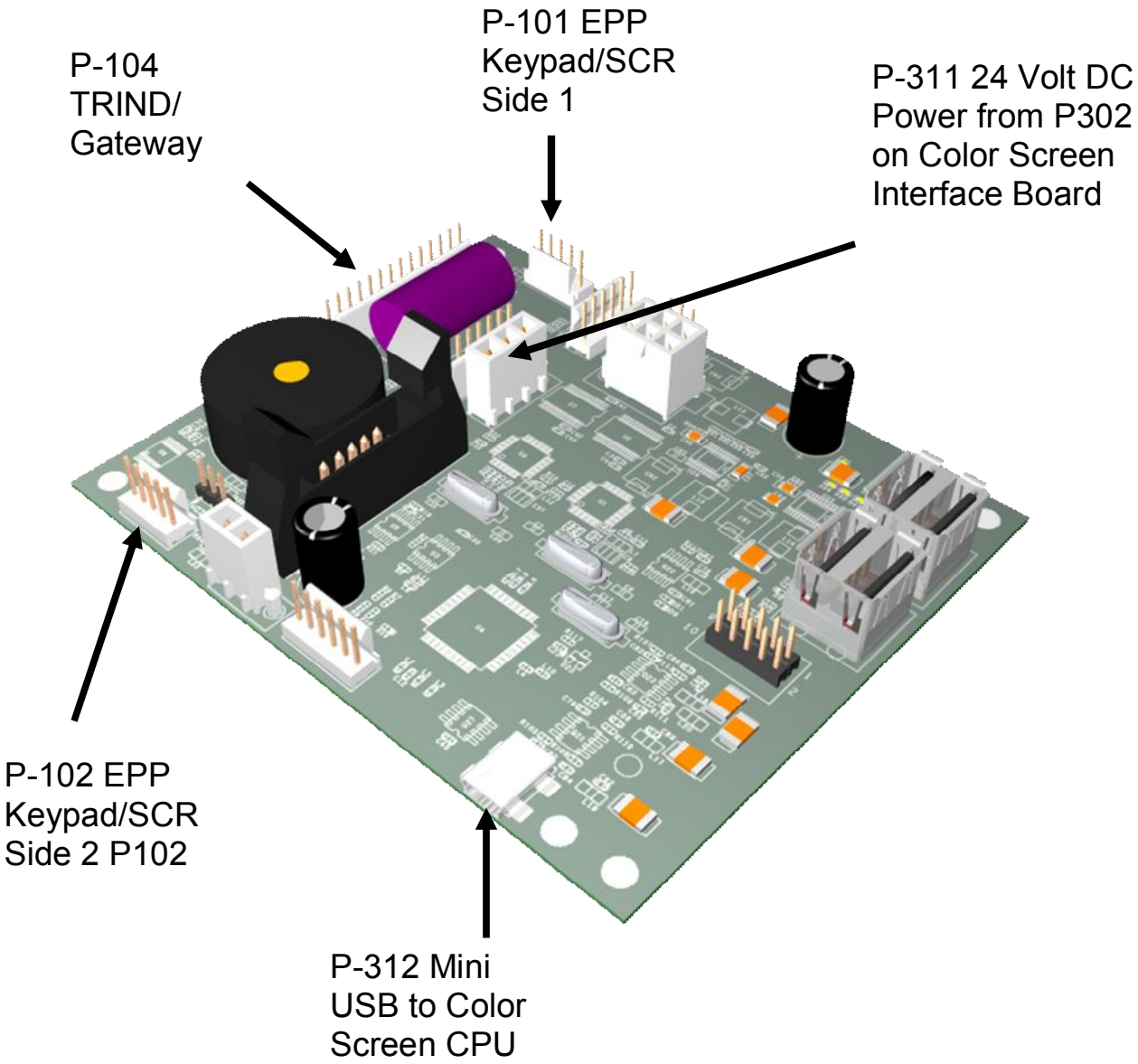
P1560 to P302 on Color CRIND Interface Board 18 VAC

JP-1 / JP-2 Used to increase hold time for intercom (default is 8 seconds) This is the amount of time allotted for the customer to talk to the attendant.

J1563 8 - VAC from transformer

M09112A001 Peripheral Interface PCB (PIP) Used with 10.4 Color Screen

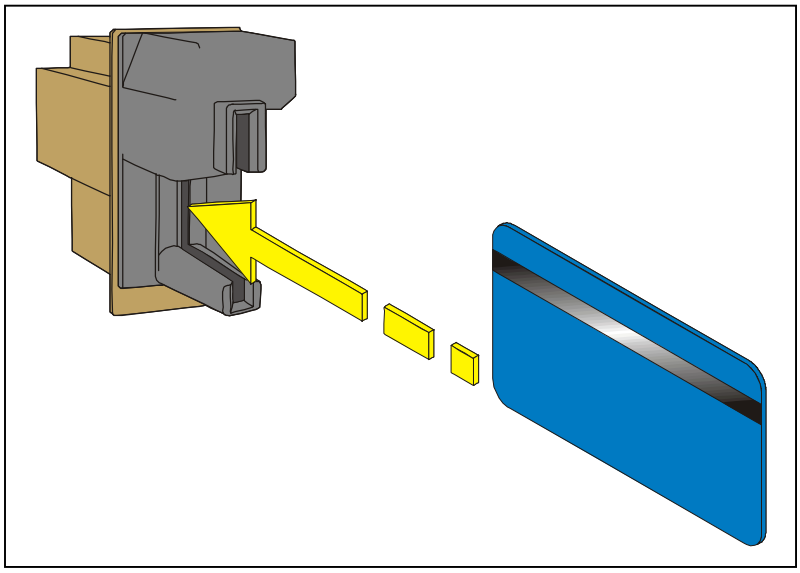
The PIP is an Interface Board sometimes used with 10.4-inch Color Screen. The PIP Board is required when both TRIND and EPP exist on a Color Dispenser. It connects to the Color Screen CPU via USB connection.
The location of the PIP is on the rear side of the Color Screen CPU assembly just below the USB to LON Interface Board.



Setting Audio Volume Level

The Audio level is programmable and accessed through CRIND Diagnostics.

Insert the diagnostics card



Select 1 “Main Menu”
Select 2 “Device Config”
Select 2 “Audio Settings”
Select 1 for side 1 or select 2 for side 2

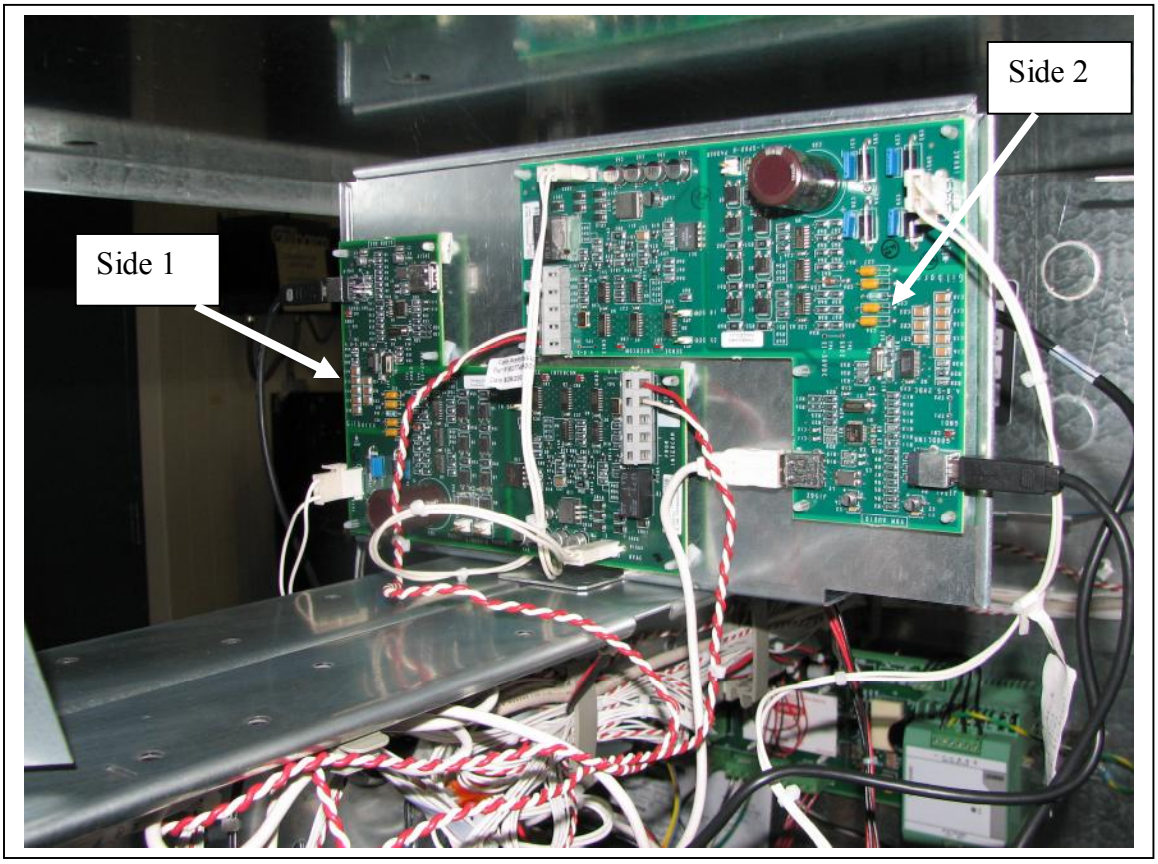
Set the Audio level by either entering the actual number desired or using the “up” or “down” soft key functions. A suggested number setting to start with is “93”.

Exit diagnostics (warm start CRIND)

Verify the desired level for the customer.

Location of Audio/Network Connectivity Board Assembly in Dispenser

The Audio/Network Connectivity Board Assembly is located on the top T-Rail inside the dispenser. It is secured with 3 nuts on the underneath side of the assembly.

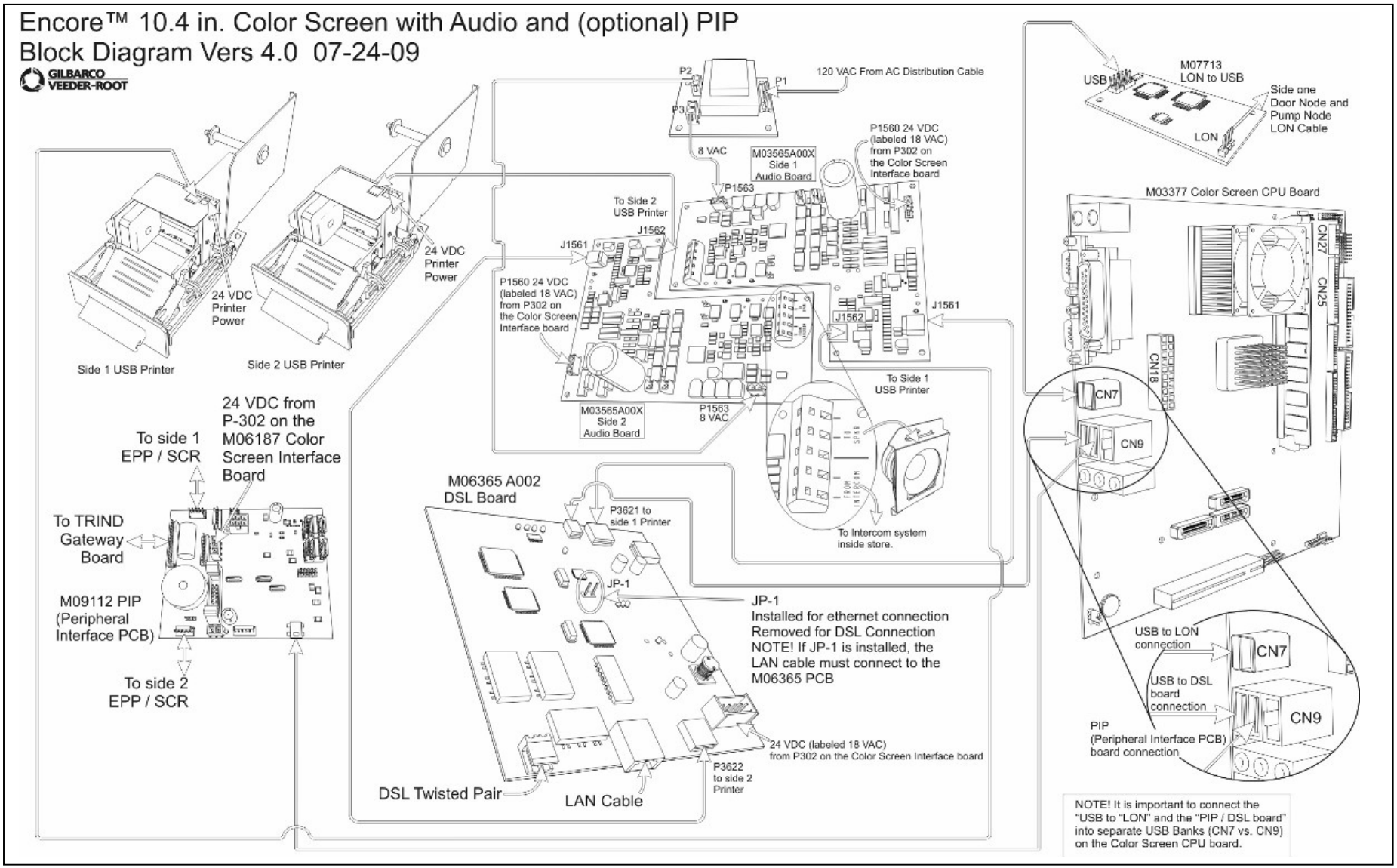


All monochrome to color retrofits and all new color dispensers will include this audio/video hardware.

The audio board closest to the side is the audio board for that side. In the graphic above, side 1 of the dispenser is toward the left.

Warranty

Standard warranty applies to the circuit boards installed in the dispenser.
For installed retrofit kits, 1 year on parts.
Reference MDE-3984 for warranty details.


Encore™ 10.4 in. Color Screen with Audio and (optional) PIP
Block Diagram Vers 4.0 07-24-09
GILBARCO VEEDER-ROOT
120 VAC From AC Distribution Cable
P2
P1
P3
8 VAC
M03565A00X Side 1 Audio Board
P1560 24 VDC (labeled 18 VAC) from P302 on the Color Screen Interface board
P1563
To Side 2 USB Printer
J1562
J1561
P1560 24 VDC (labeled 18 VAC) from P302 on the Color Screen Interface board
J1561
J1562
To Side 1 USB Printer
M03565A00X Side 2 Audio Board
P1563 8 VAC
To Intercom system inside store.
24 VDC Printer Power
24 VDC Printer Power
Side 1 USB Printer
Side 2 USB Printer
24 VDC from P-302 on the M06187 Color Screen Interface Board
To side 1 EPP / SCR
To TRIND Gateway Board
M09112 PIP (Peripheral Interface PCB)
To side 2 EPP / SCR
M06365 A002 DSL Board
P3621 to side 1 Printer
JP-1
JP-1
Installed for ethernet connection
Removed for DSL Connection
NOTE! If JP-1 is installed, the LAN cable must connect to the M06365 PCB
24 VDC (labeled 18 VAC) from P302 on the Color Screen Interface board
P3622 to side 2 Printer
DSL Twisted Pair
LAN Cable
USB
M07713 LON to USB
LON
Side one Door Node and Pump Node LON Cable
M03377 Color Screen CPU Board
CN27
CN25
CN18
CN7
CN9
USB to LON connection
USB to DSL board connection
PIP (Peripheral Interface PCB) board connection
NOTE! It is important to connect the "USB to "LON" and the "PIP / DSL board" into separate USB Banks (CN7 vs. CN9) on the Color Screen CPU board.

A “11 X 17” copy of this block diagram is attached to this TRP and available in the Applause Training Course